

## SYSTEM AND METHOD FOR ADAPTIVE DEEP-SLEEP SLOTTED OPERATION

### ABSTRACT OF THE INVENTION

5           A system and method have been provided that permit a  
mobile station to enter a deep-sleep slotted mode of operation in response  
to detected patterns of low traffic communications. A record of traffic  
communications is maintained at either the mobile station, or in the  
wireless communications network. Analysis of the record indicates  
10 whether the mobile station should be operated in the deep-sleep mode.  
Then, the deep-sleep mode, with a larger period between control  
messages, is negotiated. In some aspects of the invention, the period  
between control messages is a function of the likelihood of a traffic  
communication occurring.

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